

WHAT IS CLAIMED IS:

1. A method of creating a plurality of different media data from a plurality of presentation media data for use in the presentation of a time synchronized multimedia presentation, said method comprising:

separating time synchronization data from each of said plurality of presentation media data; and  
creating links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof.

2. The method of claim 1 wherein said separating step separates time synchronization data into one or more independent time sequences of actions.

3. The method of claim 1 wherein said separating step separates time synchronization data into one or more independent time sequences of references to actions

4. The method of claim 1 further comprising:

viewing the presentation of said time synchronized multimedia presentation coincident with said creation of said plurality of different media data.

5. The method of claim 1 further comprising:

viewing the presentation of said time synchronized multimedia presentation after said creation of said plurality of different media data.

6. A computer product comprising:

a computer usable medium having computer readable program code embodied therein for use with a computer for creating a plurality of different media data from a plurality of presentation media data for use in the presentation of a time synchronized multimedia presentation;

computer readable program code configured to cause said computer to separate time synchronization data from each of said plurality of presentation media data; and

computer readable program code configured to cause said computer to create links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof.

7. The computer product of claim 6 further comprising:

computer readable program code configured to cause said computer to separate time synchronization data into one or more independent time sequences of actions.

8. The computer product of claim 6 further comprising:

computer readable program code configured to cause said computer to separate time synchronization data into one or more independent time sequences of references to actions.

9. The computer product of claim 6 further comprising:

computer readable program code configured to cause said computer to permit viewing of the presentation of said time synchronized multimedia presentation coincident with said creation of said plurality of different media data.

10. The computer product of claim 6 further comprising:

computer readable program code configured to cause said computer to permit viewing the presentation of said time synchronized multimedia presentation after said creation of said plurality of different media data.

11. A plurality of different media signals stored on a server to be transmitted therefrom for use in the presentation of a time synchronized multimedia presentation, each of said plurality of different media signals comprising:

a content link signal for linking the associated media signal to an associated presentation media signal wherein said control link signal provides only a link to the content of said associated presentation media signal; and

a synchronization signal, wherein said synchronization signal being a time synchronization signal for the associated presentation media signal.

12. The signals of claim 11 wherein said synchronization signal separates one or more independent time sequences of actions.

13. The signals of claim 11 wherein said synchronization signal separates one or more independent time sequences of references to actions.

14. The signals of claim 13 wherein said actions are organized hierarchically.

15. The signals of claim 14 wherein the hierarchy consists of folders and workspaces.

16. The signals of claim 15 wherein said folders contain reference to actions.

17. The signals of claim 11 further comprising a control signal for controlling the access to the associated presentation media signal.

18. The signals of claim 11 wherein each signal is in an XML format.

19. A method of creating a plurality of different media data from a plurality of presentation media data and presenting a time synchronized multimedia presentation thereof, said method comprising:

separating time synchronization data from each of said plurality of presentation media data;

creating links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof;

presenting a time synchronized multimedia presentation from said plurality of different media data by:

retrieving the content from said plurality of presentation media data based upon the links from said plurality of different media data; and

presenting said content retrieved based upon the time synchronization data separated from each of said plurality of presentation media data.

20. The method of claim 19 wherein said presenting step comprises a browser executing a runtime scripts.

21. The method of claim 19 wherein said separating step separates the synchronization data into one or more independent time sequences of actions (hereinafter: "tracks").

22. The method of claim 21 further comprising:

monitoring the tracks to ensure that said time synchronized multimedia presentation is kept current, despite changes in the current time.

23. The method of claim 21 further comprising:

monitoring the tracks to ensure that said time synchronized multimedia presentation is kept current, despite concurrent changes in the synchronization data.

24. A computer product comprising:

a computer usable medium having computer readable program code embodied therein for use with a first computer for creating a plurality of different media data from a plurality of presentation media data and for presenting a time synchronized multimedia presentation;

computer readable program code configured to cause said first computer to separate time synchronization data from each of said plurality of presentation media data; and

computer readable program code configured to cause said first computer to create links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof; and

computer readable program code configured to cause a second computer to present a time synchronized multimedia presentation from said plurality of different media data by:

retrieving the content from said plurality of presentation media data based upon the links from said plurality of different media data; and

presenting said content retrieved based upon the time synchronization data separated from each of said plurality of presentation media data.

25. The computer product of claim 24 further comprising:

computer readable program code configured to cause said second computer to derive a reference for time synchronization from the current position of a portion of said plurality of presentation media data.

26. The computer product of claim 24 further comprising:

computer readable program code configured to cause said second computer to derive a reference for time synchronization according to a schedule.

27. The computer product of claim 24 further comprising:

computer readable program code configured to cause said second computer to derive a reference for time synchronization from the computer system clock.

28. The computer product of claim 24 further comprising:

computer readable program code configured to cause said first computer to separate time synchronization data into one or more independent time sequences of actions (hereinafter: "tracks").

29. The computer product of claim 24 further comprising:

computer readable program code configured to cause said first computer to separate time synchronization data into one or more independent time sequences of references to actions.

30. The computer product of claim 24 further comprising:

computer readable program code configured to cause said first computer to permit viewing of the presentation of said time synchronized multimedia presentation coincident with said creation of said plurality of different media data.

31. The computer product of claim 28 further comprising:

computer readable program code configured to cause said first computer to permit viewing the presentation of said time synchronized multimedia presentation after said creation of said plurality of different media data.

32. The computer product of claim 28 further comprising:

computer readable program code configured to cause said computer to monitor the tracks to ensure that said time synchronized multimedia presentation is kept current, despite changes in the current time.

33. A computer network system comprising:

a first computer for creating a plurality of different media data from a plurality of presentation media data and having a first computer program code for separating time synchronization data from each of said plurality of presentation media data and wherein said first computer program code for linking each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof;

a second computer for presenting a time synchronized multimedia presentation from said plurality of different media data and having a second computer program code for retrieving the content from said plurality of presentation media data based upon the links from said plurality of different media data; and wherein said second computer program code for presenting said content retrieved based upon the time synchronization data separated from each of said plurality of presentation media data; and

a communication network linking said first computer with said second computer.

34. The computer network of claim 33 wherein said second computer is in a wireless device and wherein said communication network is a wireless network.

35. The computer network of claim 33 wherein said second computer is in a TV set-top box.

36. The computer network of claim 35 wherein said second computer communicates with said first computer in accordance with the ATVEF protocol.

37. A method of delivering a plurality of different media data from a plurality of presentation media data and presenting a time synchronized multimedia presentation thereof, said method comprising:

storing time synchronization data separate from each of said plurality of presentation media data;

storing links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof;

delivering a time synchronization data and links to a plurality of users;

presenting a time synchronized multimedia presentation from said plurality of different media data by to said plurality of users, by each user:

retrieving the content from said plurality of presentation media data based upon the links stored; and

presenting said content retrieved based upon the time synchronization data stored.

38. The method of claim 37 wherein said delivering is done in real time.

39. The method of claim 37 wherein said delivering is done on demand.

40. The method of claim 37 wherein said delivering is done pursuant to an XML based command protocol.
41. The method of claim 37 wherein said delivery is done pursuant to an IP multicast format.
42. The method of claim 37 wherein said delivery employs a logical tree network of point-to-point connections.
43. The method of claim 37 further comprising controlling and visualizing distribution activities.
44. A computer product comprising:

a computer usable medium having computer readable program code embodied therein for use with a computer for storing a plurality of different media data from a plurality of presentation media data and delivering and presenting a time synchronized multimedia presentation;

computer readable program code configured to cause said computer to store time synchronization data separate from each of said plurality of presentation media data; and

computer readable program code configured to cause said computer to store links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof; and

computer readable program code configured to cause said computer to present a time synchronized multimedia presentation from said plurality of different media data by:

retrieving the content from said plurality of presentation media data based upon the links stored; and

presenting said content retrieved based upon the time synchronization data stored.

45. A computer network system comprising:

a server computer for storing a plurality of different media data from a plurality of presentation media data and having a first computer program code for storing time synchronization data separate from each of said plurality of presentation media data and wherein said first computer program code for storing links to each of said plurality of presentation media data for each of said plurality of different media data, wherein said links to each of said plurality of presentation media data provides only a link to the content thereof;

a client computer for presenting a time synchronized multimedia presentation from said plurality of different media data and having a second computer program code for retrieving the content from said plurality of presentation media data based upon the links from said plurality of different media data; and wherein said second computer program code for presenting said content retrieved based upon the time synchronization data separated from each of said plurality of presentation media data; and

a communication network linking said server computer with said client computer.

46. The computer network of claim 45 wherein said second computer is in a wireless device and wherein said communication network is a wireless network.

47. The computer network of claim 45 wherein said second computer is in a TV set-top box.

48. The computer network of claim 45 wherein said second computer communicates with said first computer in accordance with the ATVEF protocol.

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